

Amendments to the Specification:

Please replace paragraphs [0027] and [0044] with the following amended paragraphs:

[0027] If phase correction of the input phase signal is needed, this may also be incorporated into the signal processing, as shown in Figure 1(e). As shown in Figure 1(e), a phase correction processing application 120 and a phase difference function 122 may be included. In this example, the scaled wrapped phase signal, $\Phi_{\text{wrap}}(t)$, outputted from CORDIC processor 116 may be inputted into phase correction function 120. The corrected scaled wrapped phase signal $\Phi_{\text{CORR}}(t)$, outputted from the phase correction function 120 may be inputted into phase difference function 122. Those of ordinary skill in the art will appreciate that the invention is not limited to this embodiment however. In this example, the scaled wrapped phase signal may then be corrected by using the function:

[0044] The phase-modulated signal outputted from carrier wave source 408 may then be inputted into each of a plurality of individual amplifying segments (418) in amplitude modulator 308. The magnitude control signal 416 may also be inputted to control amplifying segments ~~(416)~~ (418). These segments may comprise, for example, power amplifiers, although not limited thereto. Each of the power amplifying segments may or may not produce an output depending on the magnitude control signal received by it.